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5720 Summer Trees Dr. Suite 8 Memphis, TN 38134
(901) 383-9115 Fax (901) 383-1743

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MEMORANDUM

TO: Mark Taylor/David Porter, SOUTHDIV
Tonya Barker/Rob Williamson, NAS Memphis
Jack Carmichael, USGS
David Williams, EPA
Jim Morrison/Jordan English/Clint Willer, TDEC
Brenda Duggar, MSCHD

FROM: Lawson Anderson, E/A&H

SUBJECT: Project Update #11; NAS Memphis RFI; Millington, Tennessee; CTOs-094/106

DATE: May 26, 1995

ASSEMBLY B FIELD WORK: Sampling of the drainage ditches associated with SWMUs 4, 6, 10, 31, and 38 was conducted during the first week of May. The DPT survey at SWMU 40 (Salvage Yard No. 1) began on Monday, May 8 and has been completed. Preliminary results indicate petroleum contamination in the vicinity of the former service station, including several petroleum constituents (i.e., naphthalene and toluene) detected at the top of the fluvial deposits. A data summary and sampling location map will be prepared next week for distribution. Because the expanded investigation for SWMU 40 will require installation of deeper (fluvial deposits) monitoring wells than originally planned, drilling (with the USGS auger rig) has been postponed so that strategy for expanding the investigation can be discussed by the BCT. Possible considerations include source removal (excavation/removal of the tanks, if present) before conducting additional soil and groundwater sampling and/or postponing drilling until the rotasonic rig is back onsite this fall.

ASSEMBLY C FIELD WORK: DPT surveys have been completed at SWMUs 15 (N-94 Tank Farm), 18 (N-112 UWT), and 62 (M-21 Arresting Gear). The last two sample locations at SWMU 21 (N-10 UWT) were cored today. SWMUs 26 (N-102 Battery Acid Neutralization Unit) and 27 (Northside Sewage Treatment Plan drying beds) will be sampled next week with an ATV-mounted Geoprobe rig because of access problems with the DPT rig. Though major contamination has not been found, preliminary indications are that additional investigation might be required at SWMUs 15 (residual petroleum contamination) and 21 (carbon tetrachloride hit). Data summaries and sample location maps will be prepared for distribution.

ADDITIONAL FIELD WORK AT SWMU 7: The monitoring wells at this site were resampled the first week of May. We are awaiting results. Ten additional locations will be sampled with the DPT rig beginning next Wednesday to fill data gaps identified after review of the first round groundwater monitoring data (see attached map). Stephen Howard of E/A&H

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has scheduled the week of June 19 to perform a geostatistical evaluation of the SWMU 7 data using GEOEASE.

CBU EYEWASH DRAINAGE DRUM: The contents (if any) of this drum will be sampled next Tuesday and analyzed at the DPT field laboratory.

GRAY AREA INVESTIGATION REPORT: EPA and TDEC comments have been addressed. Figures are being updated to use drawings from the new base map. The revised *Gray Area Investigation Report* will be distributed next week. Additional samples were collected with the DPT rig at the east end of abandoned Runway 9/27 where 11 ppb 1,1,1-TCA was detected during the Gray Area Investigation. Soil samples were collected at the surface, at 19 feet bls, and at 54-57 feet bls and a groundwater sample was collected at 54 feet bls. Nothing was detected in any of the samples. The test results will be incorporated into the revised report.

FOLLOW UP GRAY AREA WORK PLAN: The draft version of this plan will be distributed today or next Tuesday.

SWMU 45 INTERIM MEASURE: Based on verbal approvals of the updated work plan (TDEC at April BCT meeting and EPA on May 16), collection of groundwater samples using the DPT rig is planned for next Tuesday (May 30). The final version of the work plan will be prepared upon receipt of official comments. Loadout of previously excavated soil has been delayed due to requests for additional waste profile information by the disposal facility (BFI North Shelby Landfill in Millington). The loadout is expected to take place next week.

SWMU 19 INTERIM MEASURE: NAS Memphis personnel sampled the tank contents on May 3. Test results for the two phases (thought to be waste oil and anti-freeze) present were received this week. Constituents detected were BTEX and SVOC compounds typical of petroleum products. No solvents other than acetone were reported.

DATA VALIDATION: All Assembly A soil data has been validated. Groundwater test results through March (first round) have been received. The estimated date for completion of validation is June 26.

DISTRIBUTION OF NEW BASE MAPS: As of yesterday, everything is ready except copying of CDs (it would take 100 to 150 diskettes to hold the CAD files and digital orthophotographs) for those who do not have 8 mm tape capabilities. The vendor divided the base into 24 sections and delivered the map in that format. E/A&H has joined those sections to create a single map to go along with the 24 sections. The original deliverable did not have streets and buildings/facilities labeled or numbered, so the hard copies that are going out will be lacking this

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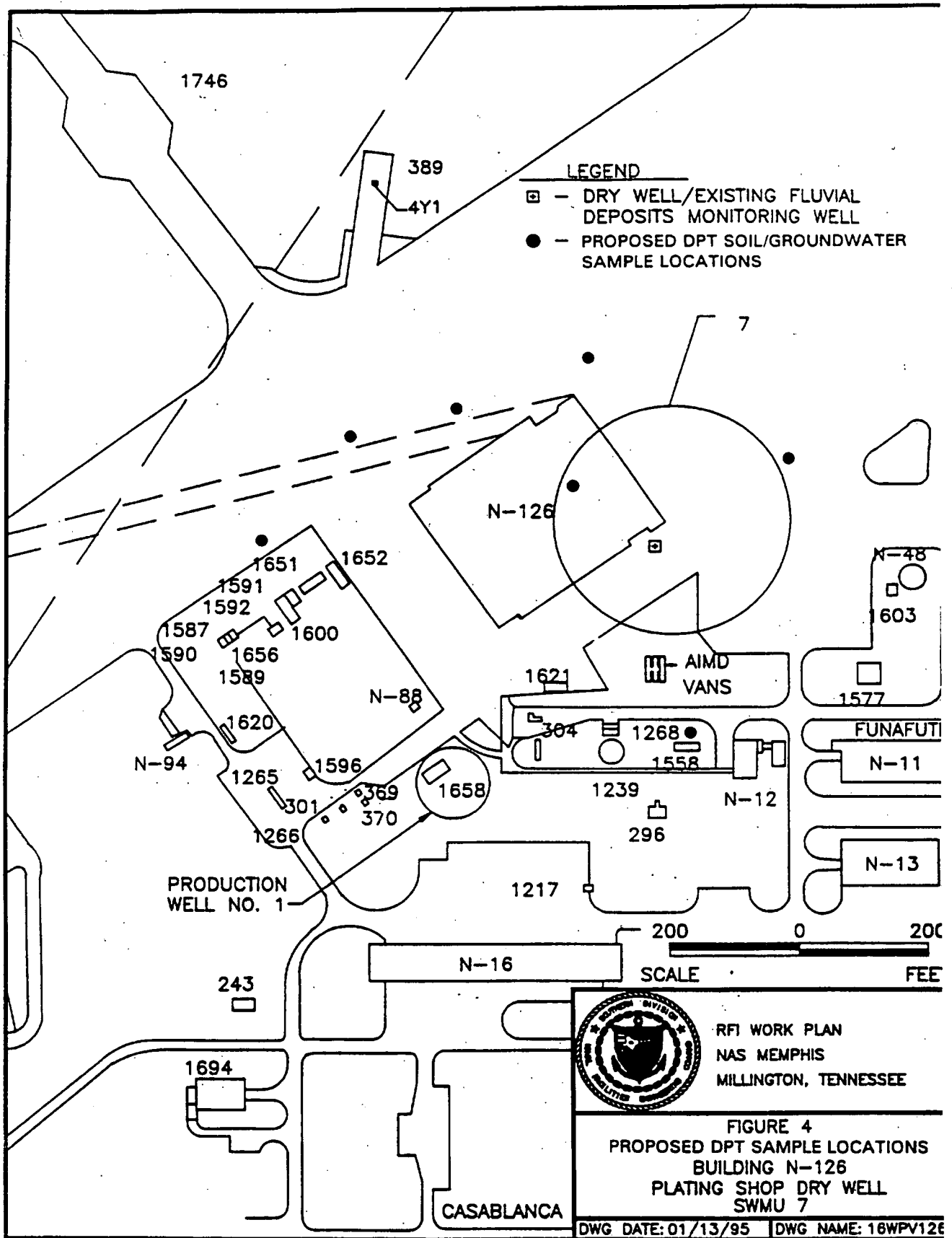
information. E/A&H is creating a layer with street names and facility numbers for distribution on diskette. Estimated completion date is June 2 (not including review/proofreading). Delivery of the maps and related information in electronic and/or hard copy form is anticipated for the middle of next week.

GROUNDWATER MODELING: The USGS has started work on the basewide groundwater model using existing information. The USGS modelers (Keith Halford and James Robinson) are based in Florida. They will meet with local USGS personnel and visit the base June 13 and 14 to gather additional information. Water level measurements from monitoring wells across the base and stream flow measurements from Big Creek will be collected by USGS personnel the week of June 19 to further calibrate the model. The estimated date for completion of a preliminary model is the first week of August.

INVESTIGATION DERIVED WASTES: Validated soil data is being reviewed to characterize drummed soil and drilling mud from the Assembly A field work. All background soil/mud has been characterized as non-hazardous. The soil/mud drums from the drilling at SWMUs 3 (N-121 Plating Shop) and SWMU 5 (AFFTF) have also been characterized as non-hazardous, with the exception of the drums associated with one boring at each of these sites. The sample results for Boring 4 at SWMU 3 and Boring 4 at SWMU 5 included hits for listed wastes (i.e., acetone, methylene chloride, and methyl ethyl ketone) that could have reasonably been expected to be present at the sites; therefore, the drums associated with these borings will be sampled for VOC analysis and moved into the permitted storage facility until results are received and final characterization of the IDW can be determined. E/A&H will collect composite samples from the drums and have a subcontractor move them next week. Characterization of the IDW for the remaining Assembly A SWMUs should be complete by the middle of next week so that any additional drum handling requirements can be taken care of along with SWMUs 3 and 5.

BCP UPDATE: Appendix A of the *BRAC Cleanup Plan* has been received by SOUTHDIV. It will be inserted in the previously prepared copies of the revised BCP and distributed next week.

I will try to put together updates next week providing information on DPT survey results, projected deliverable (reports and work plans) schedules, etc.



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ENVIRONMENTAL & SAFETY DESIGNS, INC.

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5-30-95

Lawson Anderson

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Additional comments:

This is map referenced in Project Update #11 (faxed last Friday). Planned locations for additional DPT points ^{are} based on GW monitoring well test results. Highest TCE concentrations were in well clusters 3 + 5, so DPT points are being added in the vicinity of these clusters to see if the concentrations increase or decrease as you move away from the site. Also, the additional points may provide an indication of whether SWMU 6 (the storm sewer that runs along the north side of N-126) is a possible contaminant source. If possible, one of the locations will be inside N-126 to provide information about what is under the building. IF YOU HAVE ANY

COMMENTS OR SUGGESTIONS, PLEASE LET ME KNOW ASAP BECAUSE THE WORK AT SWMU BEGINS TOMORROW.

Environmental and Safety Designs, Inc.
5724 Summer Trees Drive
Memphis, Tennessee 38134

Phone 901-372-7962

Fax 901-372-8930 Bldg. 1 901-372-6023 Bldg. 4 901-383-1743 PMO
901-372-2454 Bldg. 2 901-386-4628 Bldg. 5

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